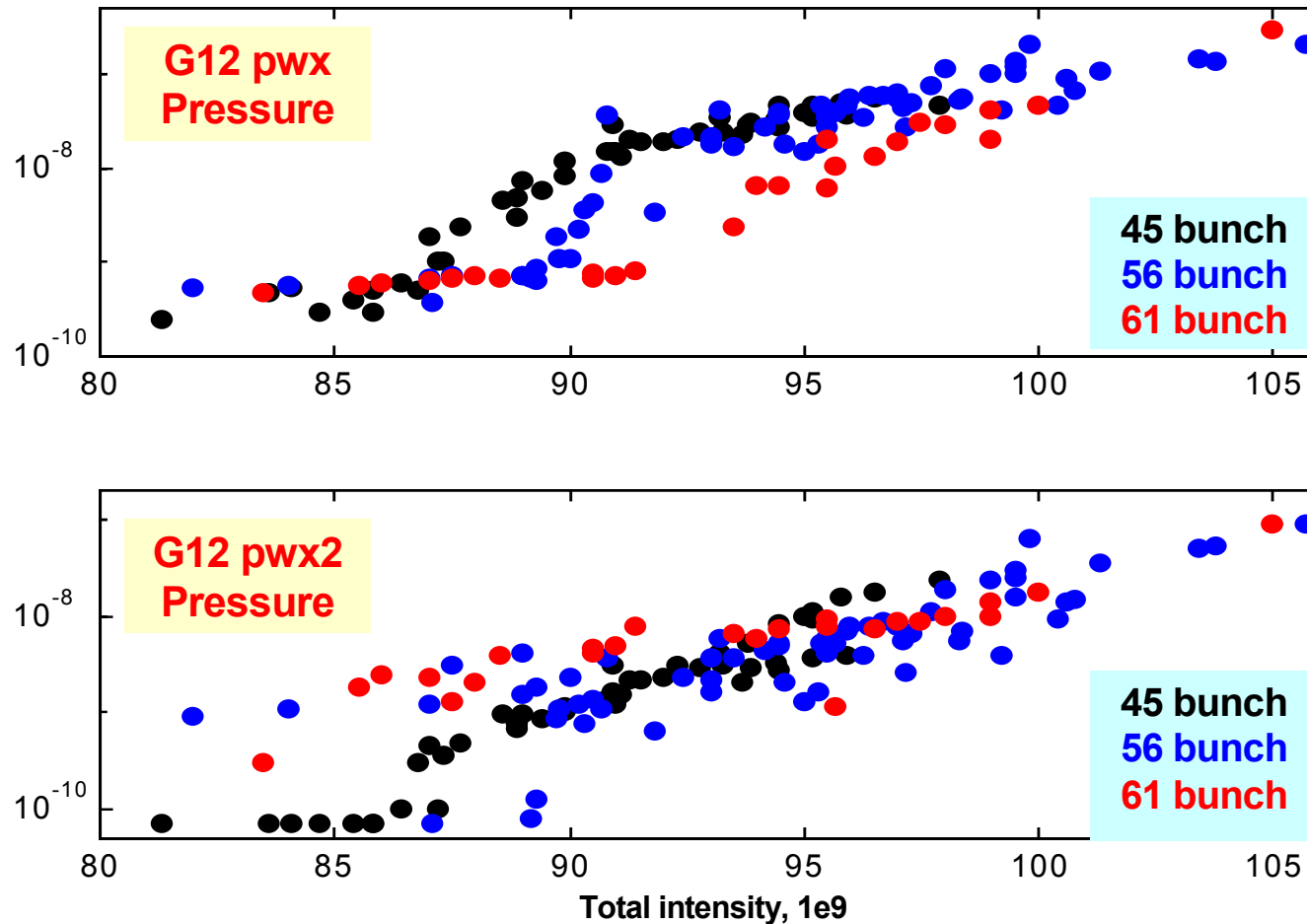


Comments on Transition Pressure Rise

S.Y. Zhang 10/29/04

1. IP12 Transition Pressure Rise in Run-4



- The dependence of transition pressure rise on bunch spacing and the line-up at IR12 in Run-4 may indicate electron multipacting.
- Dependence is different at G12 pwx (close to DX) and pwx2 (close to IP, and ED).
- At higher intensity, this dependence is reduced, so, EC maybe not dominant.
- No such dependence at IP10 and in Run-3, it may not be a typical transition PR?

2. Transition Pressure Rise - Momentum spread or peak current?

- The effects of beam momentum spread and peak current are very difficult to identify, since they go together. Lower RF voltage at transition, both peak current and momentum spread are reduced.
- IP2 pressure rise in Run-4 may show that the peak current is not the dominant factor in transition pressure rise.
- Beam momentum spread? else?

